



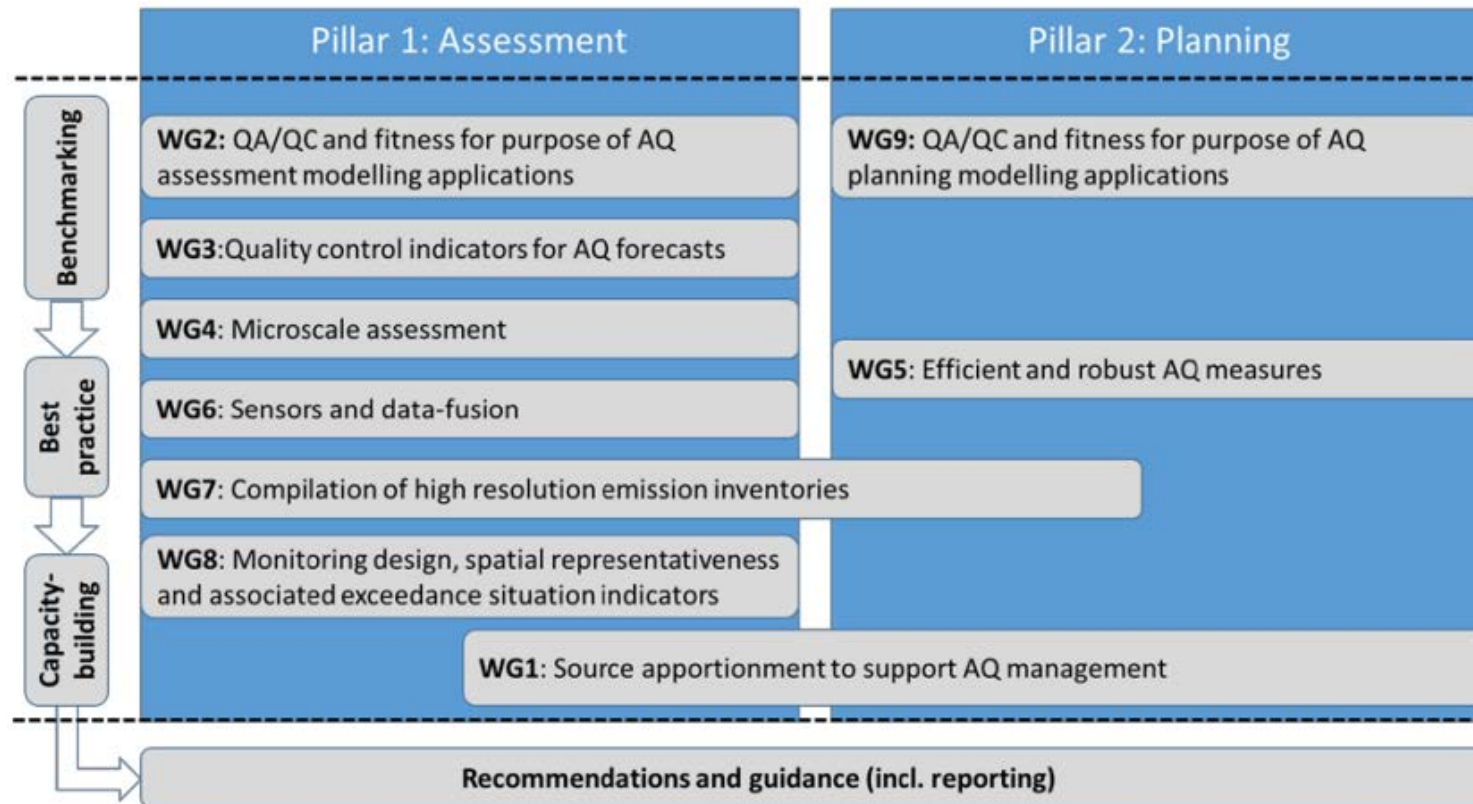
European
Commission

WG guidance documents

Guidance status, updating process and needs

Joint
Research
Centre

The process to reach the status of «guidance»



Discussion in this session is about

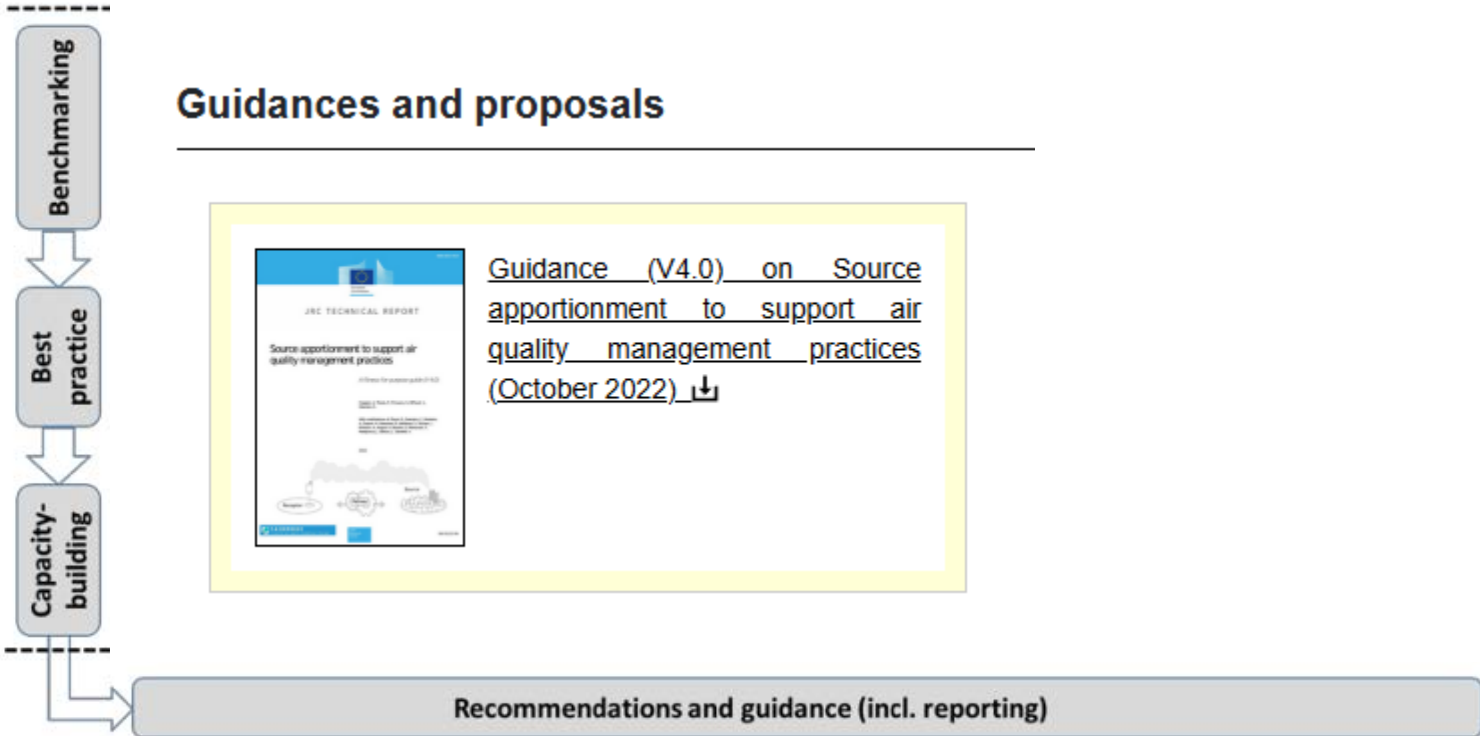
- The current situation in terms of guidance
- Updating process (where are we? how we do it? any specific need?)
- Focus on alignment with
 - CEN TS (only for MQO and Source Apportionment)
 - revised AAQD

And timing

Current WGs

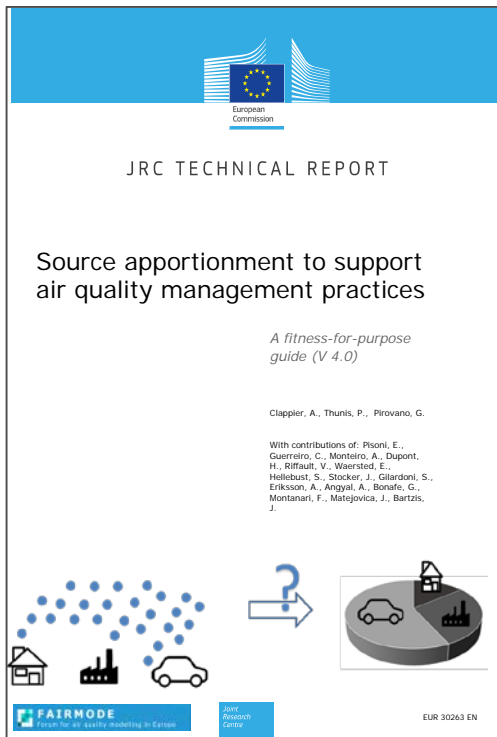
WG1 – Source apportionment to support AQ management

Guidances and proposals



SA guidance (current version 4.0 – 2022)

- SA guidance developed in three frameworks (WG1, AAQD, CEN): need for **coherence** and **complementarity**
 - **FAIRMODE WG1**: **oldest** document, can be **detailed** also including more **scientific insights**
 - **AAQD Tech Guidance**: **most updated** document, it required to be complete, simple and short; It includes a **revised fit-for-purpose section**, a **proposal of SA protocol** and **practical applications**
 - **CEN/WG44**: ongoing discussion to develop a T.S. for SMs (and a Standard?) also including a **review of some basic definitions**; which could be **the goals and the contents of the T.S.?**
- Proposal of **revision** (quite demanding -> priorities and resources are needed):
 - Methods, Linearity and formulations (C3, 4, 5): review
 - Properties (C6): review based on WG44 outcomes
 - Support to AAQD: review based on the new AAQD
 - Protocol (Cxx): first draft based on AAQD Tech Guidance?
 - Other Topics: Update of NO2 section, complementarity
- Proposed **timing**
 - Definition of priorities, resources and chapter deadlines (Apr 25)
 - Draft updated SA guidance: Aug 25
 - Comments & feedbacks: Sep 25
 - Discussion at technical meeting: Oct 25
 - Publication: Dec 25



Current WGs

WG2 – Quality assurance, quality check and fitness for purpose of AQ assessment modelling applications

Guidances and proposals



JRC TECHNICAL REPORT

FAIRMODE Guidance Document on Modelling Quality Objectives and Benchmarking

Version 2.0

Model & Policy

Guidance on model quality objectives & benchmarking (May 2022) [↓](#)

Proposal for a QA/QC protocol to support modelled assessments of air quality

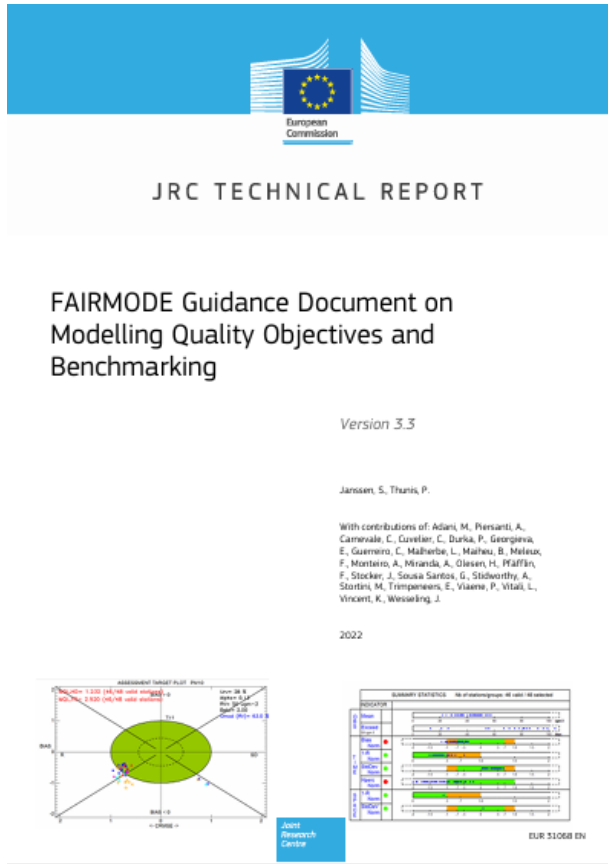
DRAFT

FAIRMODE

Proposal for a QA/QC protocol [↓](#)

Recommendations and guidance (incl. reporting)

WG2: Benchmarking guidance



Need to **update** the current version (2022) to:

- align with the AAQD 2024 and associated technical support document
- consider the latest development in the context of CEN WG43
- Update the recommendations related to forecast

Proposed **timing**

- Draft updated benchmarking guidance: Aug 25
- Comments & feedbacks: Sep 25
- Discussion at technical meeting: Oct 25
- Publication: Dec 25

Current WGs

WG3 – Quality control indicators for AQ forecasts

Guidances and proposals

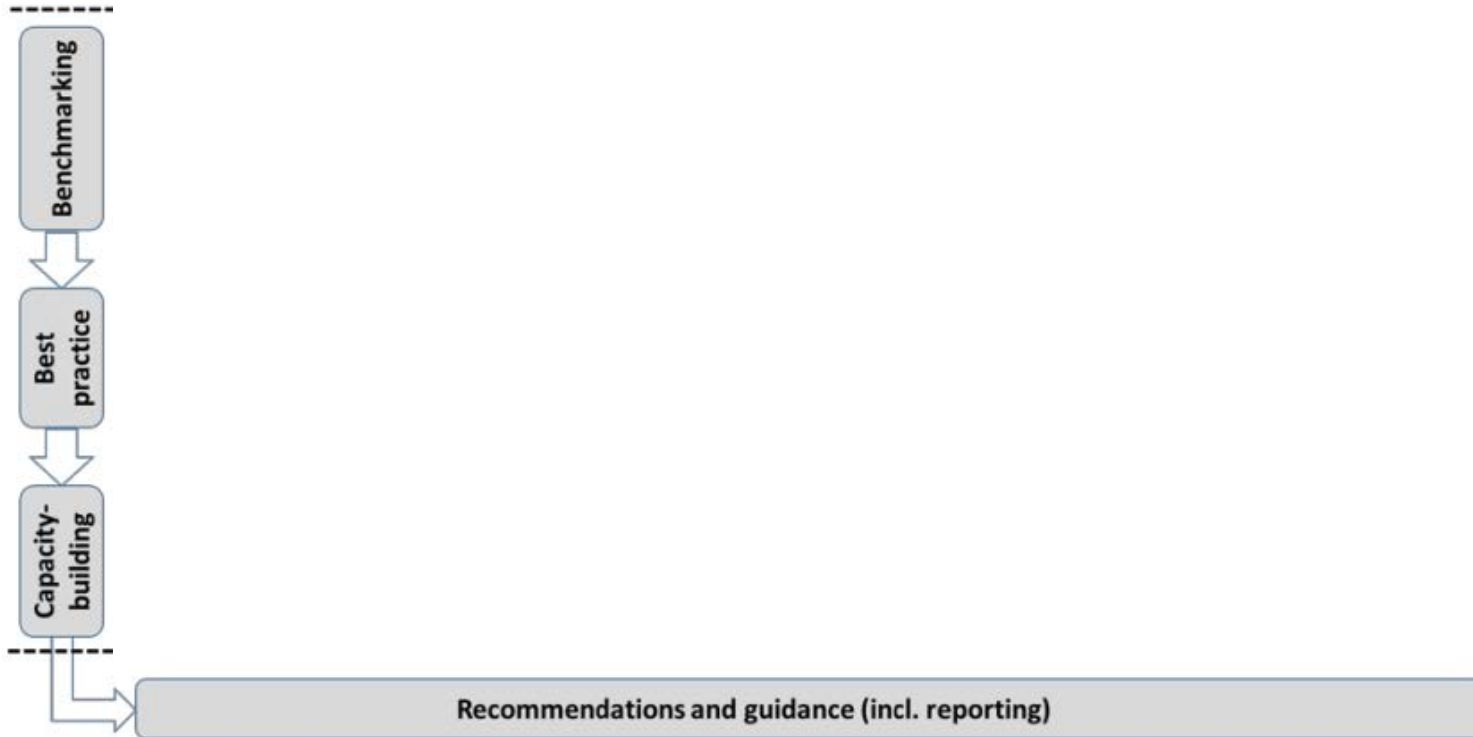


Guidance on model quality objectives & benchmarking (May 2022) [↓](#)

Recommendations and guidance (incl. reporting)

Current WGs

WG4 – Microscale assessment



Microscale modelling guidance (WG4)

The microscale modelling guidance document is being elaborated:

- 1st draft in 2024 and
- 2nd draft in February 2025 and is under review by the WG4 members.
- New draft April-May 2025
- Possibly, discussion in hackathon about:
 - When and how to make available the guidance document (FAIRMODE web site?, other?)
 - How to contribute to the *Technical support document on the use of modelling*

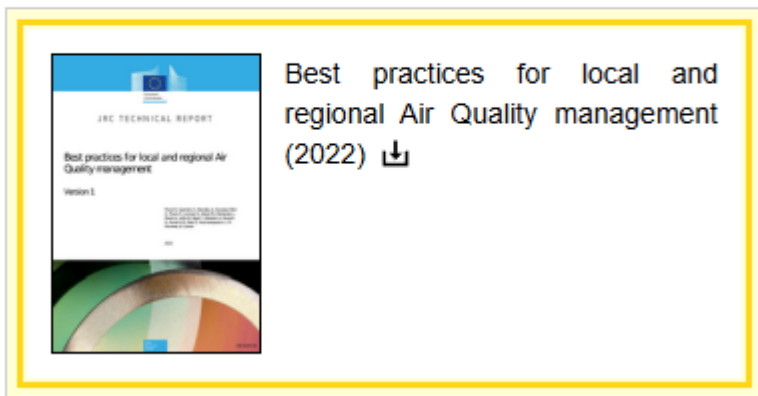
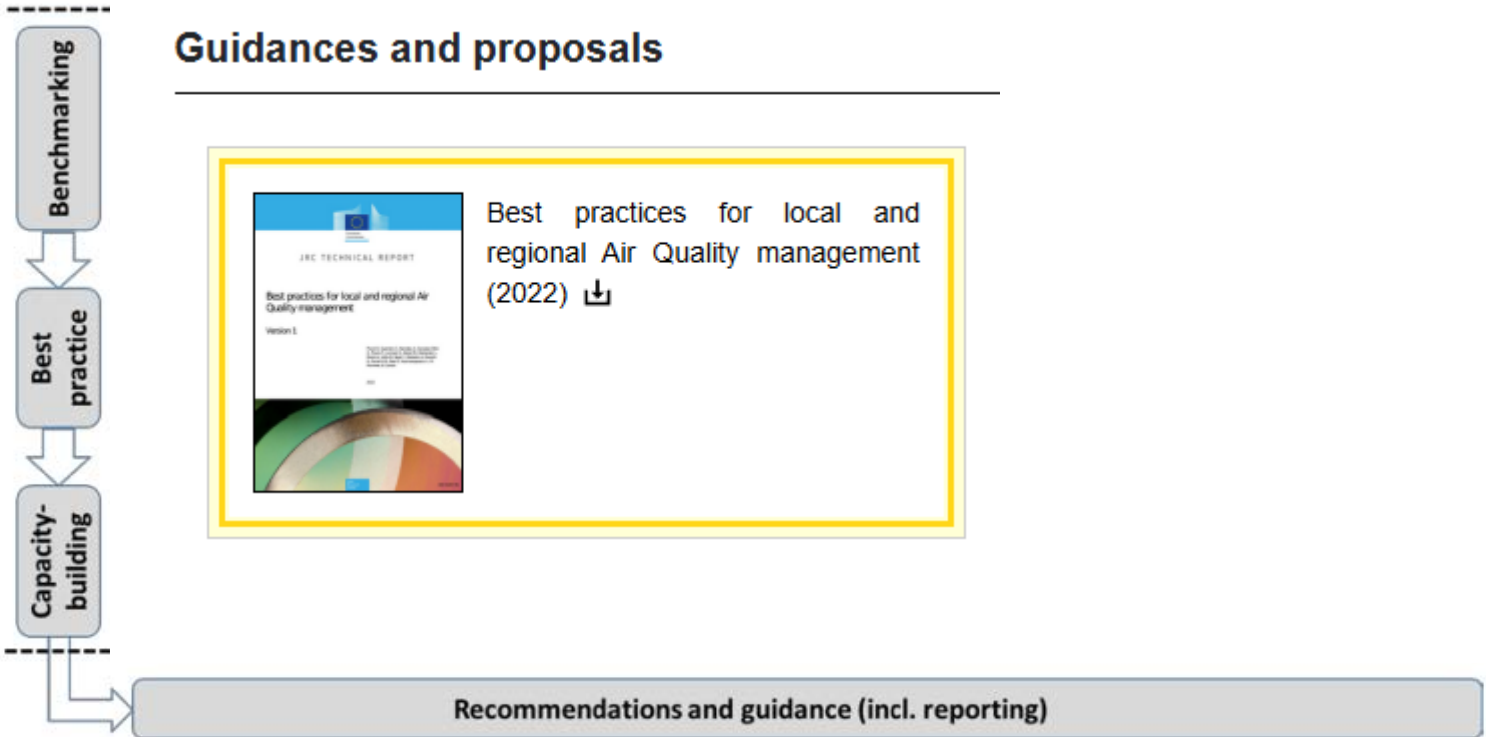
Contents of the microscale modelling guidance → Recommendations on:

- Type of information to be provided by the microscale modelling systems.
- Input data (emissions, meteorology and background pollution)
- Suitable modelling system for air quality assessment at microscale including estimate of limit values exceedances (LVEA) and spatial representativeness areas (SRA) at urban hot spots.

Current WGs

WG5 – Planning

Guidances and proposals



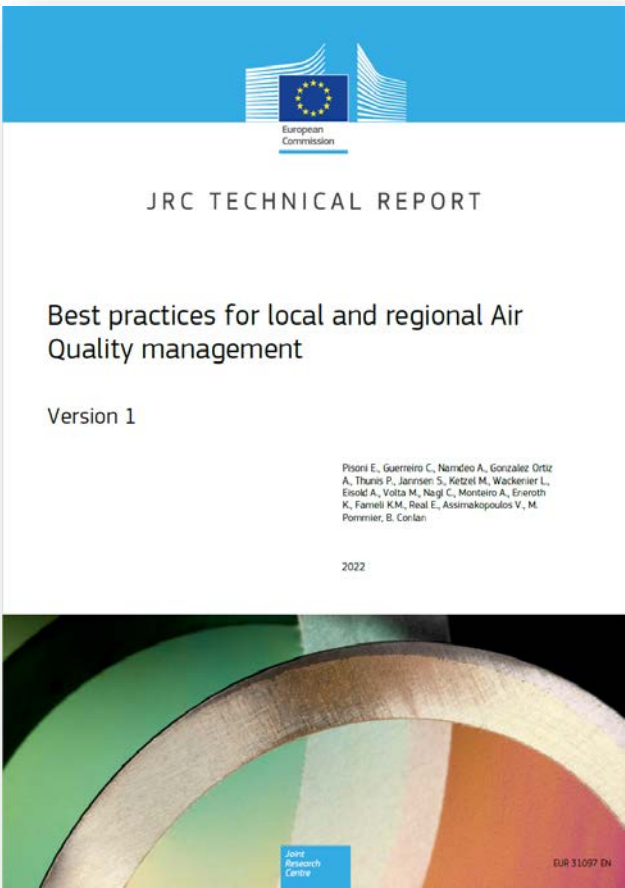
WG5 Planning

Best practices remain valid! There might be a need to align with...

- AAQD 2024
- Technical Support document

But... WG5 priority is to provide recommendations on:

- Bias projections
- Governance
- Meteorological variability (?)
- ...



Contents

Abstract.....

1 Introduction.....

2 Summary of existing knowledge on Air Quality Management Practices.....

 2.1 FAIRMODE previous documents.....

 2.2 APPRAISL FP7 project results.....

 2.3 The 'Partnership on air quality' 'code of good practices'.....

 2.4 Air implementation pilot from EEA.....

 2.5 The 'Catalogue of Measures'.....

 2.6 UK Guidance documents.....

3 Selected Key Challenges.....

4 Conclusions.....

References.....

List of abbreviations and definitions.....

List of figures.....

Annexes.....

 Annex 1. The European Air Quality Portal data flows.....

 Annex 2. Low emission zones.....

 Annex 3. How to act on non-exhaust traffic sources to reduce PM.....

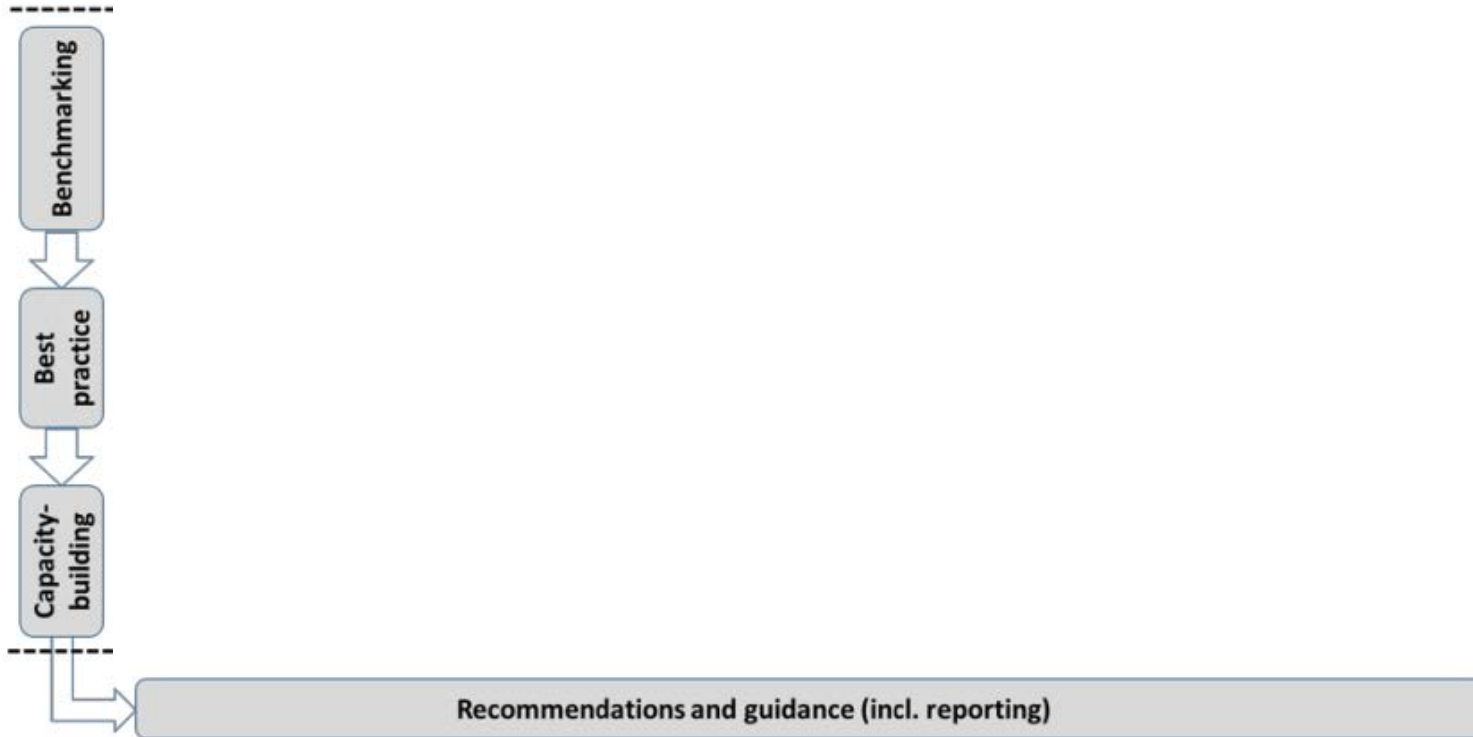
 Annex 4. How to design measures to reduce ozone concentrations?.....

 Annex 5. How to consider NEC and co-benefits (including GHG) in an air quality plan.....

 Annex 6. An approach to assess the socio-economic impacts of measures.....

Current WGs

WG6 –Sensors and data-fusion



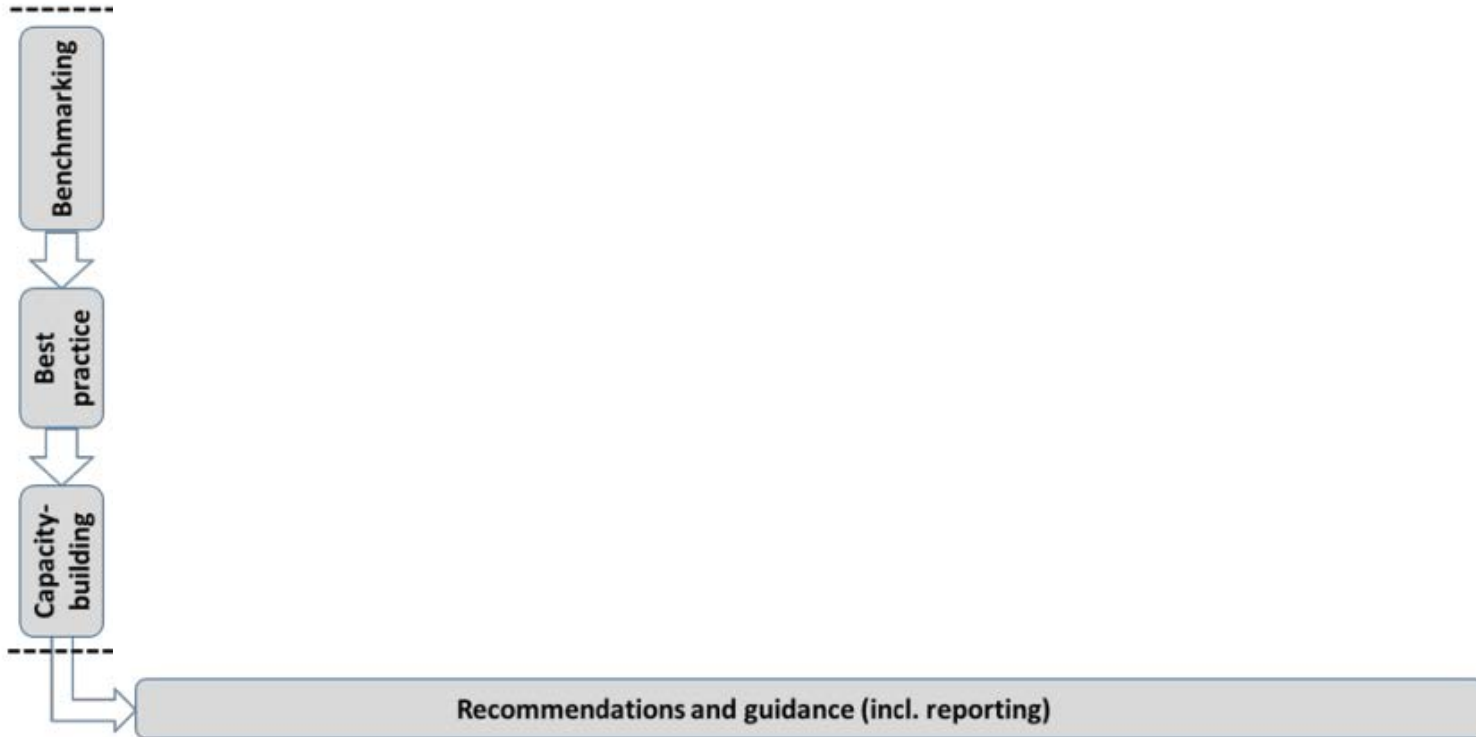
Benchmarking guidance WG6

Sensors and data fusion

- The benchmark on data sensor fusion is going until summer.
- The article that will be submitted around summer will provide information that can serve as input for future guidance.
- Fall 2025 a brainstorm session will be organized to identify best practices and guidelines for
 - Calibration of sensors
 - Fusion on sensor and model data
- Pending agreement on basic guidelines, work towards more extensive guidance documentation in 2026.

Current WGs

WG7 – Compilation of high resolution emission inventories




Current WGs

WG8 – Monitoring design, spatial representativeness and associated exceedance situation indicators

Guidances and proposals


Version 4 - Mar 2025

Guidance Document on the estimation of Spatial Representativeness [↓](#)



Version 3 - Feb 2021

Guidance Document on the estimation of Spatial Representativeness and of Exceedance Situation Indicators [↓](#)



Recommendations and guidance (incl. reporting)



Thank you



© European Union, 2024

Unless otherwise noted the reuse of this presentation is authorised under the [CC BY 4.0](https://creativecommons.org/licenses/by/4.0/) license. For any use or reproduction of elements that are not owned by the EU, permission may need to be sought directly from the respective right holders.



EU Science Hub
joint-research-centre.ec.europa.eu